

**ORANGE COUNTY EMS AGENCY  
PARAMEDIC PHARMACOLOGY HANDBOOK**

MEDICATION: MIDAZOLAM (Versed)	ADULT DOSE	PEDIATRIC DOSE	SIDE EFFECTS	PRECAUTIONS/COMMENTS
<p><b>CLASSIFICATION:</b> Anticonvulsant, short acting benzodiazepine</p> <p><b>MECHANISM OF ACTION:</b></p> <ul style="list-style-type: none"> <li>Depresses central nervous system.</li> <li>Produces amnesia, then sedation.</li> <li>Halts and prevents seizures.</li> </ul> <p><b>INDICATIONS:</b></p> <ul style="list-style-type: none"> <li>Prolonged and/or recurrent seizure activity.</li> <li>Sedation prior to synchronized cardioversion.</li> </ul> <p><b>DOSAGE FORM:</b></p> <ul style="list-style-type: none"> <li>5 mg/1 ml vial</li> </ul>	<p><u>Seizures:</u></p> <ul style="list-style-type: none"> <li>0.1 mg/kg slow IVP, titrated to effect. Maximum 5 mg/dose.</li> <li>May repeat once after 10 minutes for recurrent or persistent seizure with a base hospital order.</li> <li>0.2 mg/kg IM. Maximum 10 mg/dose.</li> <li>May repeat once after 10 minutes for recurrent or persistent seizure with a base hospital order.</li> </ul> <p><u>Synchronized Cardioversion:</u></p> <ul style="list-style-type: none"> <li>2.0 mg IV for patients <math>\leq</math> 60 years old.</li> <li>1.0 mg IV for patients &gt; 60 years old.</li> <li>IM route discouraged, but if utilized, dose should be reduced.</li> </ul>	<p><u>Seizures:</u></p> <ul style="list-style-type: none"> <li>0.1 mg/kg <b>slow</b> IVP to maximum dose of 5 mg.</li> <li>0.2 mg/kg IM if IV cannot be established to maximum dose of 10 mg.</li> <li>May repeat once after 10 minutes for recurrent or persistent seizure with a base hospital order.</li> </ul> <p><u>Synchronized Cardioversion:</u></p> <ul style="list-style-type: none"> <li>1 mg slow IVP in patients <math>\geq</math> 20 kg.</li> </ul>	<ul style="list-style-type: none"> <li>Hypotension.</li> <li>Respiratory depression.</li> </ul>	<ul style="list-style-type: none"> <li>Carefully monitor respiratory status during administration.</li> <li>Midazolam may be potentiated when combined with the use of ETOH or other CNS depressants.</li> <li>When used for cardio-version the dosages are aimed at providing an amnesiac effect, NOT a sedative effect, therefore, the dosage administered will NOT necessarily produce lethargy.</li> <li>In status epilepticus: Duration of action after IV dose is up to 2 hours.</li> <li>Midazolam IV should be administered slowly (1 mg/min).</li> <li>Consider reducing calculated IM or IV dose of patients &gt; 60 years.</li> <li>Not approved for rectal administration</li> </ul>